

L31 ANSWER 35 OF 66 HCAPLUS COPYRIGHT 2007 ACS on STN

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DOCUMENT NUMBER: 119:142995

TITLE: Reversible electrodes for batteries and electric devices

INVENTOR(S): Uemachi, Yasushi; Sato, Yoshiko; Tonomura, Tadashi; Takeyama, Kenichi

PATENT ASSIGNEE(S): Matsushita Electric Ind Co Ltd, Japan

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PATENT INFORMATION:

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PRIORITY APPLN. INFO.:			JP 1991-296821	19911113 <--

AB The electrodes are composed of ion and electron mixed conductivity conducting polymers having units containing S-S bonds, which can be reversibly electroreduced into S-metal ion (including H⁺) bonds. Preferably, the electrodes contain a polymer of an organic S compound which forms XSRS(SRS)nSR SX1 in electrooxidized form (n = 0 or an integer; X, X1 = metal M, H, or organic terminal groups; R = cyclic organic group containing C atoms bonded to ≥1 S atom in the dithio groups; and the C atoms form short chains terminated at both ends by SRSM groups when the S-S bond is broken, bonded to ≥1 N atom to form a SC:N ↔ S:CN resonance structure in its electro-reduced form, with the S atom capable of reversibly reduced electrochem.). The R group may be uracil, thiadiazole, or triazine.

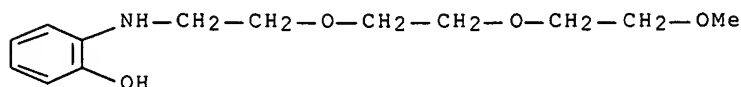
IT 149918-54-7P 149918-55-8P 149918-56-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, in disulfide polymer manufacture for electrodes)

RN 149918-54-7 HCAPLUS

CN Phenol, 2-[[2-[2-(2-methoxyethoxy)ethoxy]ethyl]amino]- (9CI) (CA INDEX NAME)



RN 149918-55-8 HCAPLUS

CN Phenol, 2-bromo-6-[[2-[2-(2-methoxyethoxy)ethoxy]ethyl]amino]- (9CI) (CA INDEX NAME)

